

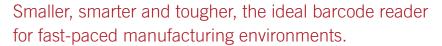
LASER-ETCH

CODE READER™ 1428



Features & Benefits

- Excels in reading Direct Part Marks, applied by laser or chemical etching, or inkjet printed
- High speed, omnidirectional reading of 1D and 2D barcodes
- Glare reduction technology for reading barcodes on shiny and mirrored surfaces
- Manual, motion detection and continuous scan barcode reading modes
- LED and programmable audible good read user feedback
- Reads barcodes reliably off PCs and mobile device screens
- Data editing and parsing versatility with JavaScript
- Use with Code's USB or RS232 Affinity® cables
- Extremely low power consumption
- Compatible with Code's CortexTools® software configuration utility



Sometimes a general purpose reader isn't what's needed. The unique requirements of direct part marking require a specialized optical platform to deliver the necessary decoding performance. Code has leveraged years of optical and decoding design experience to create the specialized CR1428.

With its low-contrast decoding precision, the CR1428 effortlessly increases first-pass read rates of laser-etched marks on consumer electronic products, while still outperforming in reading printed 1D, 2D and postal barcodes.

Combined with its advanced data formatting capabilities, the CR1428 provides accurate and reliable data integration into any manufacturing application to keep production lines moving efficiently.

One reliable partner, even in rigorous conditions.

The CR1428 is built to perform in a variety of conditions. IP54 housing protects the reader against harsh cleaning agents, dust and water ingress. Its durable construction can even handle multiple drops to concrete floors. If you're working in unpredictable environments or need to accurately read barcodes on a range of items, the CR1428 can stand up to whatever you throw its way.



Applications

Automotive, Semiconductor, Electronic Assembly, Pharmaceutical, Medical and Consumer Product industries

Features at a Glance















CODE READER™ 1428 SPECIFICATIONS

Physical Characteristics

CR1428 Dimensions	$5.5"~{\rm H~x}~2.75"~{\rm L~x}~2.0"~{\rm W}$ (140 mm H x 70 mm L x 50 mm W)
CR1428 Weight	3.9 oz (110 g)
Color Options	Available in dark gray
IP Rating	54

User Environment

O	200 - 550 0 / 40 - 1210 5		
Operating Temperature	-20° to 55° C / -4° to 131° F		
Storage Temperature	-30° to 65° C / -22° to 150° F		
Humidity	5% to 95% non-condensing		
Decode Capability	1D: BC412, Codabar, Code 11, Code 32, Code 39, Code 93, Code 128, IATA 2 of 5, Interleaved 2 of 5, GS1 DataBar, Hong Kong 2 of 5, Matrix 2 of 5, MSI Plessey, NEC 2 of 5, Pharma- code, Plessey, Straight 2 of 5, Telepen, Trioptic, UPC/EAN/JAN		
	Stacked 1D: Codablock F, Code 49, GS1 Composite (CC-A/CC-B/CC-C), MicroPDF, PDF417		
	2D: Aztec Code, Data Matrix, Data Matrix Rectangular Extension, Grid Matrix, Han Xin, Maxicode, Micro QR Code, QR Code, QR Model 1		
	Proprietary 2D: GoCode® (Additional License Required)		
	Postal Codes: Australian Post, Canada Post, Intelligent Mail, Japan Post, KIX Code, Korea Post, Planet, Post¬net, UK Royal Mail, UPU ID-tags		
	Direct Part Marks: Barcodes applied by laser or chemical etching, or inkjet printed.		
Image Output Options	Formats: JPEG or PGM		
Field Selection	Wide Field		
Data Editing	JavaScript		

Working Ranges

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Test Barcode	Wide Field - Near	Wide Field - Far		
	Min Inches (mm)	Max Inches (mm)		
7.5 mil Code 39	1.53" (39 mm)	7.28" (185 mm)		
10.5 mil GS1 DataBar	0.79" (20 mm)	6.69" (170 mm)		
13 mil UPC	1.26" (32 mm)	10.24" (260 mm)		
4.2 mil DM	1.57" (40 mm)	2.95" (75 mm)		
5 mil DM	1.38" (35 mm)	3.35" (85 mm)		
6.3 mil DM	1.06" (27 mm)	4.21" (107 mm)		
10 mil DM	0.79" (20 mm)	6.50" (165 mm)		
20.8 mil DM	0.98" (25 mm)	11.02" (280 mm)		

Note: All samples were high quality barcodes and were read along a physical center line at a 10° angle. Default AGC settings were used. Accuracy= +/- 10%.

Performance Characteristics

Field of View	Wide Field: 50° horizontal by 33.5° vertical		
Focal Point	Approximately 100 mm		
Sensor	CMOS 1.2 Megapixel (1280 x 960) gray scale		
Optical Resolution	Wide Field: 960 x 640		
Pitch	\pm 65° (from front to back)		
Skew	± 60° (side-to-side)		
Rotational Tolerance	± 180°		
Symbol Contrast Res.	15% minimum reflectance difference		
Target Beam	Single, blue targeting bar		
Ambient Light Immunity	Sunlight: Up to 9,000ft-candles/96,890 lux		
Shock	Withstands multiple drops of 6' (1.8 Meters to concrete)		
Power Requirements	Reader @ 5vdc (mA): Typical = less than 450 mA; Idle = less than 80 mA; Sleep = less than 31 mA		
Memory Capacity	128MB Flash ROM, 32MB RAM		
Communication Interfaces	RS232, USB 2.0 (Generic HID, HID Keyboard, Virtual COM Port)		
Warranty	www.codecorp.com/legal/warranty.php		

Accessories

- Various Cable Options Available. Visit www.codecorp.com/cables.php for a list of compatible cables
- Universal Stand





Web: www.codecorp.com